

Message

From: Nwosu, Bernard [Ben.Nwosu@WestonSolutions.com]
Sent: 9/27/2016 3:28:25 PM
To: Nguyen, Lyndsey [Nguyen.Lyndsey@epa.gov]; Gaughan, Daniel [Gaughan.Daniel@epa.gov]
Subject: RE: PRGs for each radionuclides at each of the sites
Attachments: Table-4_160913_CRU_Rad Soil Analytical Results_Validated.pdf

Hi Lyndsey,

For Canadian Radium & Uranium Site, please can you let me know what information you require to enable you provide the PRG/SSAL for Th-227. We did not have results for Th-227 in prior analytical results from Test America, but NAREL provided soil analytical results for this radionuclide. Although the report values appear to be very low, I feel the values still need to be compared with a PRG/SSAL value. Please let me know your thoughts.

Thanks,

Ben Nwosu

Senior Project Scientist / Group Leader
Weston Solutions, Inc.

From: Nguyen, Lyndsey [mailto:Nguyen.Lyndsey@epa.gov]
Sent: Monday, April 25, 2016 4:48 PM
To: Daly, Eric ; Nwosu, Bernard
Subject: PRGs for each radionuclides at each of the sites

Howdy Eric and Ben!

Below are the PRG numbers for each radionuclides at each of the sites. Please let me know if I am missing anything from the lists below needed to regenerate the maps, tables, diagrams for the sites. Sorry, this took so long.

Canadian Radium & Uranium:

Isotope	Total PRG (pCi/g)
Ac-228	1.28E+05
Bi-212+D	6.44E+06
Bi-214+D	1.31E+06
Cs-137+D	1.12E+01
K-40	2.67E+01
Pb-210	4.18E+02
Pb-212	6.57E+05
Pb-214	7.33E+06
Ra-224+D	7.78E+05
Ra-226+D	2.52E+00
Ra-228+D	1.62E+01
Th-228	1.33E+04
Th-230	2.06E+03
Th-232+D	5.11E+00
Th-234+D	4.75E+04
Tl-208	3.40E+06
U-234	3.26E+03
U-235+D	3.77E+01
U-238+D	1.58E+02

Holy Trinity Cemetery:

Isotope	Total PRG (pCi/g)
Ac-228	2.07E+05
Bi-210	1.54E+07
Bi-212+D	1.04E+07
Bi-214+D	2.11E+06
Cs-137+D	1.80E+01
K-40	4.30E+01
Pa-234	1.16E+05
Pb-210	1.32E+03
Pb-212	1.06E+06
Pb-214	1.18E+07
Ra-224+D	1.40E+06
Ra-226+D	4.06E+00
Ra-228+D	2.63E+01
Th-228	3.10E+04
Th-230	6.16E+03
Th-232	6.26E+03
Th-234+D	7.67E+04
Tl-208	5.47E+06
U-234	1.03E+04
U-235+D	6.09E+01
U-238	1.17E+04

Niagara Falls Boulevard:

Isotope	Total PRG (pCi/g)
Ac-228	1.26E+05
Bi-212+D	6.33E+06
Bi-214+D	1.23E+06
Cs-137+D	1.10E+01
K-40	2.59E+01
Pa-234	7.11E+04
Pb-212	6.61E+05
Pb-214	7.20E+06
Ra-224+D	7.71E+05
Ra-226+D	2.48E+00
Ra-228+D	1.59E+01
Th-228	1.41E+04
Th-230	2.09E+03
Th-232	2.02E+03
Th-234+D	4.79E+04
Tl-208	3.43E+06
U-234	3.33E+03
U-235+D	3.92E+01
U-238	3.72E+03

Lyndsey
 Lyndsey Nguyen
 Environmental Response Team-Las Vegas
 Phone: 702.784.8018
 Cell: 702-373-3756
 Email: Nguyen.Lyndsey@EPA.gov

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